

Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.

RTD TODAY

Resources and Technology Division
Economic Research Service
U.S. Department of Agriculture, Washington, DC

A newsletter for employees
and colleagues of RTD

OCTOBER-NOVEMBER 1991

FROM THE DIRECTOR'S OFFICE

As 1991 draws to a close, I would like to take stock of our efforts to improve the workplace community in RTD. As you know, we have recently completed a series of well attended Town Meetings. The meetings were held to discuss the report by Ben Alexander and Associates on our workplace environment and to surface any other unresolved concerns or suggestions for an improved sense of community. I was encouraged by your candor and the enthusiasm with which the RTD staff approached these meetings.

I am convinced that, to be successful in our effort to create a mutually supportive and productive workplace community, we all need to focus on leadership rather than mere management. At least in the sense that the term management is regarded as negative, restrictive, and regulatory, it will not solve problems in interpersonal relations, in understanding cultural differences, or in overcoming the dichotomies inherent in our organizational arrangements.

We strive for a leadership environment that facilitates developing and expanding the personal and professional qualities of all of our staff. We will continue to emphasize quality and seek continuous improvement toward a common set of purposes. Leadership requires responsibility, initiative, and commitment. It requires vision, broad education, wide experience, and courage. In this effort, we all need to be leaders.

RTD has already implemented a number of actions to open the process. The term Professional Support Staff has been adopted to overcome the previous artificial distinction created by the Professional versus Support Staff dichotomy. RTD Happenings, our new internal employee newsletter covering items of personal interest to our staff, is in its fifth issue. The number of staff meetings held throughout RTD has increased and I am encouraged by the general improvement in communicating information and ideas at all levels within RTD. Improved communication is essential if we are to deal with two key barriers Ben Alexander identified: (1) "Learned Insensitivity" on the part of managers and research staff and (2) "Learned helplessness" on the part of the support staff. We will all progress by accepting responsibility for understanding the needs of others and what it takes to get our part of the job done.

FOOTNOTE: RTD Branch and other units are abbreviated in this letter, as follows:

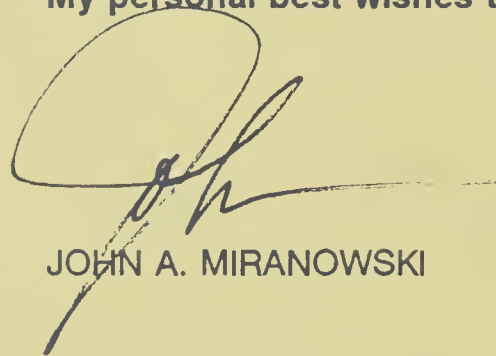
Office of the Director (OD), Agricultural Inputs and Production Systems Branch (AI&PS), Land and Capital Assets Branch (L&CA), Resource Policy Branch (RP), Water Branch (W), and Resource Indicators Branch (RI).

Looking ahead, we are developing an expanded Division orientation program for new employees as well as continuing the new mentoring/buddy system that we have already established. We are discussing options for Branch team building with Ben Alexander and will soon announce a plan for this. We are considering both Division and Agency options for supervisory training, including the incorporation of mentor training. Supervisory performance will receive more emphasis in performance reviews. Opportunities for upward mobility of all our staff, especially the professional support staff, are being developed. There are a number of other actions being implemented or contemplated that will be discussed in future issues of **RTD TODAY**.

We have established a new RTD Employee Recreation Association to sponsor and coordinate activities for employee recognition, recreation, and holiday celebrations. An Appreciation and Awards Ceremony is planned for December 11 in the Waugh Auditorium to highlight accomplishments over the last year. The generosity and good spirit in RTD showed in our recent Combined Federal Campaign performance -- winning the Administrator's Award for best Division -- 119% of our goal and 91% participation! My special congratulations to Peter DeBraal and his team of key workers.

As we approach the holiday season, I would like to express my sincere appreciation to all of our staff for their contributions to RTD over the last year. It has been a tremendous year! Not only have we undertaken new initiatives on Workforce Diversity (including our highly successful March Workshop) and improving our workplace community, but we have also maintained an enviable record of output. The researchers, professional support staff, and supervisors joined forces to produce 117 staff analyses, 32 ERS/USDA publications, numerous contributions to outlook reports, over 65 refereed journal articles and other research publications, and over 70 presentations, speeches, and seminars. Notable contributions have occurred in a number of areas including: agricultural research, technology, fertilizer demand, agricultural policy and environmental quality, and global change (including a successful December Conference). Likewise, very significant contributions to Departmental initiatives on water quality, food safety, global change, and implementation of the 1990 Food, Agriculture, Conservation, and Trade Act have been made during the past year. Every staff member, as well as the Division as a whole, can look back with well deserved satisfaction on this impressive record of accomplishment.

My personal best wishes to you and your families for the holiday season and for a rewarding new year!

A handwritten signature in black ink, appearing to read 'John A. Miranowski', with a large, stylized initial 'J' and 'M'.

JOHN A. MIRANOWSKI

PROGRAM HIGHLIGHTS

ERS-RTD Technology Program Update -- The technology program at ERS has made substantial progress over the past 2 years in contributing to the economic understanding of technology and technical change and has brought this understanding to bear on critical issues facing the Department of Agriculture. In a previous **RTD Today** program update (Fall/Winter 1989), three technology program directions were identified: technology assessment, policy issues and technology, and traditional economic questions concerning productivity growth and the forces affecting the rate of technical change.

Under the general heading of technology assessment, the principal issue facing RTD researchers continues to be how advances in biotechnology will affect farmers, consumers, trade, the environment, and food safety. A significant Departmental concern has been how the European Community will treat commodities produced using biotechnology products. Margriet Caswell was part of a U.S. delegation to the U.S.-E.C. Task Force on Biotechnology Research and presented a paper "Economic Research on the Effects of Biotechnology in Market Economies". A result of the meeting was an agreement to develop a comprehensive review of the methods and results of economic assessments of biotechnology. Caswell and an EC counterpart are conducting this review. In a similar vein, Fred Kuchler contributed an overview of "Socioeconomic Issues Raised by Commercial Application of Biotechnology" in USDA's Agricultural Biotechnology: An Introduction to Field Testing. The volume serves as a guide for biotechnology researchers and was prepared by USDA's Office of Agricultural Biotechnology.

Over the past year, earlier biotechnology research efforts have resulted in publications on animal growth hormones (John McClelland, John Reilly, and Fred Kuchler), on consumer effects of biotechnology (Reilly), and on implications for biotechnology regulation drawn from previous experience with food safety (Kuchler, McClelland, and Susan Offut).

In addition to biotechnology assessment, RTD researchers have considered the impacts and potential of irrigation technology (Caswell, Don Negri and Doug Brooks, and Glen Schaible, Chong Kim, and Norm Whittlesy, Washington State University), adoption of alternative management systems (Parveen Setia and David Letson), and drainage technology (Caswell, Erik Lichtenberg, University of Maryland, and David Zilberman, University of California-Berkeley).

Under the heading of policy issues and technology, Robbin Shoemaker presented a plan at the RTD planning retreat to investigate how new technologies will affect water quality and the cost of reducing agricultural chemical use. This research is an integral component of RTD's water quality program which continues to be a major focus for the Division and for the U.S. Department of Agriculture. Under the global change program, RTD also plans to consider technological response to changing resource conditions and changing agricultural prices that may occur as climate changes. In these efforts, RTD researchers hope to examine technological response as an endogenous part of the economy. Understanding technological adaptation and response to changing prices and policies is critical in developing better estimates of the costs and benefits of proposed policies, particularly for environmental concerns where the expected costs and benefits extend relatively far into the future.

Pursuing a greater understanding of technology policy, Bruce Larson, Mary Knudson and Leroy Hansen have produced a set of papers that address both public attempts to create incentives for private R&D and how regulation and control of potential risks reduce the incentive for private R&D. Knudson and Hansen have been concerned about defining intellectual property rights, examining whether the Plant Variety Protection Act encouraged R&D in the seed industry. Knudson also teamed with George Frisvold to consider plant patenting in a short article for Agricultural Outlook. Larson has examined how the potential risks of new technology are internalized into private firm decisions.

Under the category of traditional economic analysis of technical change, Frisvold published several papers identifying forces affecting the rate of technical change. He and Eugene Lomax examined the roles of public R&D, scientist training, and other factors in explaining differential rates of productivity growth among 26

countries. Frisvold has also placed the induced innovation work on a new theoretical foundation and empirically tested a model for the U.S. His work provides direction for our efforts to incorporate induced technological response as part of policy analysis. A second component of work in this category has been the role of public and private R&D. Frisvold, Mary Knudson, and Carl Pray, Rutgers University, have explored aspects of this issue in symposium papers published in the AJAE. Knudson also has considered economic factors in technology adoption and diffusion in a paper in the AJAE. And finally, Margot Anderson and Larson have followed up on early work on technology transfer by theoretically examining technology transfer within a principal-agent framework.

(Complete citations to publications referenced here appear in the back of this issue of **RTD Today** or in the August-September issue which lists publications for fiscal year 1991).

EVENTS AND ACTIVITIES

Visiting Scholars - Resource Indicators Branch -- During the current fiscal year RTD's program of work on resource measurement and productivity will be enhanced by two distinguished visitors. Christophe Bureau of the National Institute for Agricultural Research, Grignon, France, will contribute to the agency's work on developing measures of international productivity growth. Bureau's research interest is in production economics and he will be working on cost-of-production estimates for European Community countries, researching purchasing power parities, and assisting in improving ERS' data base for the European Community. Bureau has an M.A. in agronomy and a Ph.D. degree in agricultural economics, both from the Université Paris at Sorbonne.

Utpal Vasavada, formerly on the faculty at Université Laval, is working on policy issues related to food safety, water quality, and sustainable agriculture. Vasavada has recently worked on trade policy implications of sustainable agriculture and on modeling international trade under imperfect competition. Vasavada has a B.A. and M.A. in economics from the University of Poona in India and M.S. and Ph.D. degrees in economics from the University of Maryland. He has also been on the faculty at the University of Georgia, was a visiting professor at the University of Connecticut, and was a visiting scholar with ERS in 1987.

FACTA Workshop -- The Southern Natural Resource Economics Committee (SRIEG-10) and the Northeast Land Policy Committee (NE-170) met jointly October 10-11 in Arlington, Virginia for a workshop on "Implementing Resource Provisions of the Food, Agriculture, Conservation, and Trade Act of 1990" (FACTA). This was a follow-up to a workshop held in November 1989, that provided participants with background to the 1990 Farm Bill debate.

The context for conservation implementation was set in presentations by Keith Collins, Director of the Economic Analysis Staff, Office of the Secretary, USDA, "New Flexibility in Commodity Programs," and Susan Offutt, Chief, Agriculture Branch, Office of Management and Budget, "Budget Realities for Agriculture."

Collins concluded that planting flexibility provisions were more the result of a desire to partially decouple planting decisions from support levels and from budget considerations than because of any rotational or other conservation benefits. Producers have not used the new flexibility to any great extent in the first year, partly because it is a new provision and partly because many operators may have limited alternatives to existing program crops. Offutt strongly emphasized that budget constraints have proven to be a driving consideration in policy development, at a cost to more substantive issues such as conservation or environmental goals. She pointed to emerging differences between authorizing and appropriation committees, resulting in new programs that cannot be implemented. This situation has long plagued other aspects of government, but is new to agricultural policy.

Resource policy under FACTA was divided for discussion purposes into (1) changes in programs that existed under the 1965 Farm Act and (2) new policies or programs. Tim Osborn (RP) discussed changes in the Conservation Reserve Program and Dan Colacicco (ASCS) the Wetland Reserve Program and Swampbuster. Osborn said that economists had a large role in redesigning CRP bid acceptance criteria in order to ensure

that bids did not exceed average cash rents for comparable land in the local area and to achieve better cost effectiveness with regard to CRP program goals. These changes were motivated by criticisms from GAO and internal USDA studies of CRP, congressional redirection of CRP toward off-site environmental problems, and limited acreage enrollment goals. Colaccico discussed amendments to the Swampbuster provisions that made the act of converting wetlands itself a violation, rather than growing crops on converted wetlands, and increased operators' flexibility in dealing with wetlands on their land. He also spoke about the new Wetland Reserve Program, saying that planning to implement the program had been difficult because of uncertainty about funding levels and disagreements about land retirement programs between authorizing and appropriating committees.

The new directions in resource policy were addressed by Marc Ribaud (WB) and David Dyer (American Farmland Trust). Ribaud laid out the development of the Water Quality Incentives Program. Again, implementation has been delayed by uncertainty over funding for this new initiative. Ribaud also discussed the role of WQIP in the context of the President's Water Quality Initiative. David Dyer, who was instrumental in developing the "Farms for the Future" legislation was disappointed in the implementation of the program. He said that those involved with State farmland preservation programs are not interested in Federal loan guarantees that hamper the program with excessive documentation, but do need the interest rate subsidies offered by the program. He doubted that many States would take advantage of the program as currently structured.

The concluding presentation for the workshop was a discussion of funding for resources research by Mark Bailey, Secretary to the Joint Council on Food and Agricultural Sciences, USDA. Bailey gave a presentation on the organization of the Joint Council and discussed new initiatives to better anticipate changes in agricultural technology and public concerns. He indicated that social science is still a small part of total research funding and resources funding is not differentiated from funding for trade, production economics, and other social science work.

Ralph Heimlich (L&CA) President, SRIEG-10 and member of NE-170, organized the workshop.

Polish Inputs Situation and Outlook -- Stan Daberkow, Leader of the Inputs Supply and Demand Section (AI&PS), visited Warsaw, Poland as part of the ERS-Polish Institution Building Project funded under the 1990/91 SEED II Act through USAID and USDA. ERS staff are working with counterparts in several Eastern European countries to develop their capacity to: a) produce and disseminate information on commodity and input markets (situation and outlook); b) conduct analysis of agricultural issues in a market environment (policy analysis); and c) provide analysis of key policy issues to decisionmakers.

Daberkow was involved in establishing an Inputs Situation and Outlook report with the Institute of Agriculture and Food Economics, which is associated with the Polish Ministry of Agriculture. Given the emphasis on the development of a market economy in Poland, these reports are intended to fill an information and analysis vacuum created by the demise of central planning.

Daberkow's initial visit concentrated on establishing a broad outline for an agricultural inputs S&O report, forming a team of 4-5 Polish economists to complete the report, orienting the team with the U.S. S&O effort in RTD, and becoming familiar with the structure, size, policies, and economic issues facing Polish farmers, input producers, and distributors. The Polish Inputs team will visit ERS in late January for the purpose of observing our S&O procedure, visiting several input manufacturing firms, discussing forecasting methodology, and learning about our data collection system. The first report is scheduled for March and a second report in early fall of 1992.

Climate Change Report -- The first research report in RTD's new program of work on climate change has recently been published. Climate Change: Economic Implications for World Agriculture, Agricultural Economic Report No. 647, by Sally Kane, John Reilly, and James Tobey, provides a preliminary assessment of the economic effects of a doubling of carbon dioxide levels on world agriculture, given present agricultural technologies and structure of production, population, and world agricultural demand conditions.

The report concludes that, despite substantial yield effects of climate change, the economic effect on national and world economies is likely to be small, as reduced production in some areas is balanced by gains in others. In a moderate climate change scenario developed by the authors, world output actually increases slightly. There remain major uncertainties in how climate will change in the future and how climate change is translated into effects on agricultural production. The authors explore uncertainties in agricultural effects through sensitivity analysis of world commodity prices to a range of climate impact scenarios.

Land Ownership Seminar -- Forty participants from ERS, several universities, private research groups, and the World Bank met at the Omni Shoreham in Washington, October 3-4 for a seminar on "The Ownership, Tenure, and Taxation of Agricultural Land." Papers included a legal-economic examination of the separation of interests in land, two analyses of the capital and land component of real property value, an analysis of share renting, a commentary on the distribution of landholding and the taxation of rent, two overviews of federalism in land policy, a comparison of land tenure and markets in the UK and USA, and several notes on data needs and sources including the Census of Agriculture and Census of Governments.

The seminar was sponsored by the Robert Schalkenback Foundation, the Farm Foundation, and ERS. Participants on the program from ERS included Administrator John Lee, RTD Director John Miranowski, Denise Rogers, Peter DeBraal, John Michos, Hyunok Lee, Patrick Canning, and Ralph Heimlich. Gene Wunderlich, Leader of the Land Ownership Section (L&CA), organized the seminar. The papers are currently being revised and a published monograph is planned for early 1992.

PEOPLE

Welcome to ...

- Lisa Boyer (OD), who is a Cooperative Education student at South Carolina State College.
- Henry Buist (L&CA), Ph.D. in Economics from University of Pennsylvania, who joined the Resource Use and Capital Investment Section.
- Roy Darwin (L&CA), formerly at Battelle-Pacific Northwest Laboratory, who joined the Resource Adjustments Section.
- Jesus Dumagen (RI), Ph.D. in Agricultural Economics, Cornell University, who joined the Resource Measurement and Productivity Section.
- Tracy Glascoe (RI), B.A. in Economics from the University of Pennsylvania, who joined the Resource Measurement and Productivity Section.
- Amy Mullville (W), B.A. in Economics from Colorado College, who joined the Water Management and Technology Section.
- Ken Richards (L&CA), Ph.D. candidate in Economics at the University of Pennsylvania, who joined the Resource Adjustments Section.
- Cynthia Sandidge (OD), formerly with USDA Office of Personnel, who joined the Director's Office as a Secretary.
- Martin Shields (AI&PS), M.S. in Agricultural Economics from Pennsylvania State University, who joined the Pesticide Assessment Section.

PUBLICATIONS

(July 1991 - November 1991)

ERS/USDA PUBLICATIONS

Monographs

- Denbaly, Mark and Harry Vroomen. Elasticities of Fertilizer Demands for Corn in the Short and Long Run: A Cointegrated and Error Correcting System. ERS Staff Report No. AGES 9137. August 1991. 13 pp.
- Ervin, David (Director), K. Algozin, M. Carey, O. Doering, S. Frerichs, R. Heimlich, J. Hrubovcak, K. Konyar, I. McCormick, T. Osborne, M. Ribaud, and R. Shoemaker. Conservation and Environmental Issues in Agriculture: An Economic Evaluation of Policy Options. Staff Report No. AGES 9134. July 1991. 62 pp.
- Hauver, James H., Jet Yee, and V. Eldon Ball. Capacity Utilization and Measurement of Agricultural Productivity. Technical Bulletin No. 1798. August 1991. 32 pp.
- Heimlich, Ralph (Ed.). A National Policy of No Net Loss of Wetlands: What Do Agricultural Economists Have To Contribute? ERS Staff Report No. AGES 9149. August 1991. 40 pp.
- Heimlich, Ralph, Marlow Vesterby, and Kenneth Krupa. Urbanizing Farmland: Dynamics of Land Use Change in Fast-Growth Counties. Agricultural Information Bulletin No. 629. September 1991. 45 pp.
- Kane, Sally, John Reilly, and James Tobey. Climate Change: Economic Implications for World Agriculture. Agricultural Economic Report No. 647. October 1991. 21 pp.
- Knudson, Mary and LeRoy Hansen. Intellectual Property Rights and the Private Seed Industry. Agricultural Economic Report No. 654. November 1991. 19 pp.
- Larson, Bruce and Mary Knudson. Public Regulation of Agricultural Biotechnology Field Tests: Economic Implications of Alternative Approaches. Technical Bulletin No. 1793. August 1991. 19 pp.
- McClelland, John, Fred Kuchler and John Reilly. Implications of New Technology for the Livestock Sector: Animal Growth Hormones. Agricultural Information Bulletin No. 626. September 1991. 18 pp.

Periodicals

- Wunderlich, Gene and Jim Carlin (Eds.). Journal of Agricultural Economics Research. Vol. 43, Nos. 1, 2. 1991.

Situation and Outlook

Periodicals

- Bull, Len and Harold Taylor (Coords.). Agricultural Resources: Inputs. Situation and Outlook Report. No AR-24. October 1991. 47 pp. Contributors to the report are:
- | | | |
|--------------|---------------|-----------------|
| Len Bull | Mohinder Gill | Noel Uri |
| Herman Delvo | Harold Taylor | Marlow Vesterby |
- Padgitt, Merritt (Coord.) Agricultural Resources: Cropland, Water, and Conservation. Situation and Outlook Report. No. AR-23. September 1991. 55 pp. Contributors to the report are:
- | | | | |
|---------------------|-------------------|-----------------|------------------|
| Marcel Aillery | Clifford Dickason | Ralph Heimlich | C.T. Osborn |
| William Crosswhite | Art Daugherty | John Hostetler | Bill Quinby |
| Stephen Crutchfield | Noel Gollehon | Richard Magleby | Carmen Sandretto |

Articles

- Crosswhite, William and Carmen Sandretto. **Trends in Resource Protection Policies in Agriculture.** Agricultural Resources: Cropland, Water, and Conservation. Situation and Outlook Report No. AR-23. September 1991. pp. 42-49.
- Daugherty, Arthur. **Flex Acres and Cropland Use.** Agricultural Outlook. AO-180. ERS, USDA. November 1991. pp. 25-27.
- Day, Kelly, Walter Ferguson, and Phil Szmedra. **Economic Implications of a Ban on EBDC Disease Control Uses in Vegetable Production.** Vegetables and Specialties. Situation and Outlook Report No. TVS-254. August 1991. pp. 27-32.
- Gill, Mohinder and Stan Daberkow. **Crop Sequences Among 1990 Major Field Crops and Associated Farm Program Participation.** Agricultural Resources: Inputs. Situation and Outlook Report No. AR-24. October 1991. pp. 39-46.
- Gollehon, Noel. **California Drought Persists.** Agricultural Outlook. AO-176. ERS, USDA. July 1991. pp. 24-26.
- Heimlich, Ralph. **New Wetland Definition Debated.** Agricultural Outlook. AO-180. ERS, USDA. November 1991. pp. 22-25.
- Hexem, Roger. **Farmland Values Rising More Slowly.** Agricultural Outlook. AO-178. ERS, USDA. September 1991. pp. 18-20.
- Lin, Biing-Hwan, LeRoy Hansen, Stan Daberkow, and Michael Dreitzer. **Substitutability of Crop Rotations for Agrichemicals: Preliminary Results.** Agricultural Resources: Inputs. Situation and Outlook Report No. AR-24. October 1991. pp. 24-29.
- Rendleman, Matt. **Corn's Link to Sugar: HFCS.** Agricultural Outlook. AO-178. ERS, USDA. September 1991. pp. 12-14.
- Ribaudo, Mark and Danette Woo. **Summary of State Water Quality Laws Affecting Agriculture.** Agricultural Resources: Cropland, Water, and Conservation. Situation and Outlook Report No. AR-23. September 1991. pp. 50-54.
- Taylor, Harold H. **Fertilizer Application Timing.** Agricultural Resources: Inputs. Situation and Outlook Report No. AR-24. October 1991. pp. 30-38.

ARTICLES AND OTHER PUBLICATIONS

- Anderson, Margot and Bruce Larson. **International Technology Transfer: Private Channels and Public Welfare.** American Journal of Agricultural Economics. Vol. 73, No. 3. August 1991. pp. 892-897.
- Caswell, Margriet F. **Irrigation Technology Adoption Decisions: Empirical Evidence.** A. Dinar and D. Zilberman (Eds.). The Economics and Management of Water and Drainage in Agriculture. Kluwer Academic Publishers. Boston, Massachusetts. 1991. pp. 295-312.
- Frisvold, George B. **Emerging Issues In the Allocation of Public Agricultural Research Funds.** American Journal of Agricultural Economics. Vol. 73, No. 3. August 1991. pp. 876-881.
- Heimlich, Ralph. **Soil Erosion and Conservation Policies In the USA.** N. Hanley (Ed.). Farming and the Countryside: An Economic Analysis of External Costs and Benefits. CAB International. Redwood Press Ltd., Melksham, UK. 1991. pp. 59-90.

- Hellerstein, Daniel. **Using Count Data Models In Travel Cost Analysis With Aggregate Data.** American Journal of Agricultural Economics. Vol. 73, No. 3. August 1991. pp. 860-867.
- Larson, Bruce A. and Harry Vroomen. **Nitrogen, Phosphorus and Land Demands at the Regional Level: A Primal Approach.** Journal of Agricultural Economics. Vol. 40, No. 2. September 1991. pp. 354-364.
- Larson, Bruce A. and M.K. Knudson. **National Resource Prices, Export Policies, and Deforestation: The Case of Sudan.** World Development. Vol. 19, No. 10. October 1991.
- Larson, Bruce A. and M.K. Knudson. **Public Regulation of Biotechnology Field Tests: Economic Implications of Alternative Approaches.** American Journal of Agricultural Economics. Vol. 73 No. 4 November 1991. pp. 1034-1052.
- Malik, A.S. and R.M. Schwab. **The Economics of Tax Amnesties.** Journal of Public Economics. Vol. 46, No. 1. October 1991. pp. 29-49.
- Malik, A.S. **Permanent versus Interim Regulations: A Game Theoretic Analysis.** Journal of Environmental Economics and Management. Vol 21, No. 2. September 1991. pp. 127-139.
- Moore, Michael, Donald Negri, and John A. Miranowski. **Cropland Allocation Decisions: The Role of Agricultural Commodity Programs and the Reclamation Program.** A. Dinar and D. Zilberman (Eds.). The Economics and Management of Water and Drainage in Agriculture. Kluwer Academic Publishers. Boston, Massachusetts. 1991. pp. 575-596.
- Reilly, John and Roger Conway. **Technology Policy and Agriculture: Discussion.** American Journal of Agricultural Economics. Vol. 73, No. 3. August 1991. pp. 898-900.
- Ribaudo, Marc and Steven Piper. **Estimating Changes in Recreational Fishing Participation from National Water Quality Policies.** Water Resources Research. Vol. 27, No. 7. July 1991. pp. 1757-1763.
- Tegene, A. **Trade Flows, Relative Prices, and Effective Exchange Rates: a VAR on Ethiopian Data.** Applied Economics. Vol. 23, No. 8. August 1991. pp. 1369-1376.
- Tegene, A., and F. Kuchler. **A Description of Farmland Investor Expectations.** Journal of Real Estate Finance and Economics. Vol. 4, No. 3. September 1991. pp. 283-296.
- Tegene, A., and F. Kuchler. **An Error Correcting Model of Farmland Prices.** Applied Economics. Vol. 23, No. 11. November 1991. pp 1741-1747.
- Tegene, A. **Results of a Price-Forecasting Competition: Comment.** American Journal of Agricultural Economics. Vol. 73, No. 4. November 1991.
- Tobey, James. **The Failure of Economics in Environmental Management.** Review of P. Portney (Ed.). Public Policies for Environmental Protection. Resources for the Future. Washington, D.C. 1990, in Journal of Agricultural Economics Research. Vol. 43, No. 2. 1991. pp. 52-53.
- Tobey, James and Kenneth Reinert. **The Effects of Domestic Agricultural Policy Reform on Environmental Quality.** Journal of Agricultural Economics Research. Vol. 43, No. 2. 1991. pp. 20-28.
- Vandeman, Ann M. **Labor Contracting and a Theory of Contract Choice in California Agriculture.** American Journal of Agricultural Economics. Vol. 73, No. 3. August 1991. pp. 681-692.
- Vesterby, Marlow, and Ralph Heimlich. **Land Use and Demographic Change: Results From Fast-Growth Counties.** Land Economics. Vol. 67, No. 3. August 1991. pp. 279-291.

Vroomen, Harry. **A Short-Run Forecasting Model for Nitrogen Fertilizer Prices.** Agribusiness: An International Journal. Vol. 7, No. 6. November 1991. pp. 515-522.

Yee, Jet. **Effect of Consumption Standards on U.S. Gasoline Consumption.** Journal of Policy Modeling. Vol 13, No. 2. Summer 1991. pp. 205-227.

Wunderlich, Gene. **100 Years of Populism.** Review of N. Pollack. The Humane Economy: Populism, Capitalism, and Democracy. Rutgers University Press. New Brunswick, N.J. 1990, in Journal of Agricultural Economics Research. Vol. 43, No. 2. 1991. pp. 59-60.

PAPERS, SPEECHES, SEMINARS

Ball, Eldon, Hyunok Lee, and Agapi Somwaru. **Cross-Country Comparisons of Cost-Efficiency in EC. Agriculture.** Poster Paper. XXI International Conference of Agricultural Economics. Tokyo, Japan. August 29-31, 1991.

Caswell, Margriet F. **Environmental Interdisciplinary Research and the Economist.** Western Economic Association Meetings. Seattle, Washington. June 29-July 3, 1991.

Caswell, Margriet F. **Economic Research on the Effects of Biotechnology In Market Economies.** EC-U.S. Task Force on Biotechnology Research Meeting. Brussels, Belgium. July 1991.

Chambers, Robert G. and Hyunok Lee. **Externalities, Sharecropping, and Social Efficiency.** The Ownership, Tenure, and Taxation of Agricultural Land Seminar. Robert Schalkenback Foundation, Farm Foundation, ERS. Washington, D.C. October 3-4, 1991.

Connolly, Daniel and Daniel Piper. **U.S. University Collaboration with the International Agricultural Research Centers: A Survey Report.** IARC Staff, U.S. Agency for International Development. Washington, D.C. October 1991.

Crosswhite, William and Richard Magleby (organizers). **Symposium on Improving Micro-Level Economic Evaluation of Technology Adoption and Production System Changes.** American Agricultural Economics Association Annual Meetings. Manhattan, Kansas. August 5-7, 1991.

Daberkow, Stan. **Agricultural Input Price Perspective.** Southern Regional Agricultural Outlook Conference. Atlanta, Georgia. September 23-24, 1991.

Frisvold, George B. **Induced Innovation and Long-run Factor Substitution: Implications for Research and Environmental Policy.** American Agricultural Economics Association Annual Meetings. Manhattan, Kansas. August 4-7, 1991.

Gertel, Karl. **A Non Econometric Approach to Land Value Research.** North Central Land Values Committee (NCR-123) Meeting. St. Paul, Minnesota. October 10-11, 1991.

Gertel, Karl and Linda Atkinson. **Structural Models and Some Automated Alternatives for Forecasting Farmland Prices.** Fourteenth Annual Federal Forecasters Conference. Washington, D.C. September 12, 1991.

Hansen, LeRoy. **The Demand For Pheasant Hunting: Evaluation of the impacts of Agricultural Practices.** Western Economics Association International Meetings. Seattle, Washington. June 29 - July 3, 1991.

Hellerstein, Daniel. **Estimating Consumer Surplus in the Censored Linear Model.** American Agricultural Economics Association Annual Meetings. Manhattan, Kansas. August 5-7, 1991.

- Hexem, Roger. **Farmland Value Update**. August, November, 1991. Quarterly papers prepared from surveys of a national panel of accredited rural appraisers (2 issues). 4 pp.
- Larson, Bruce and Margot Anderson. **Technology Transfer, Contract Structure, and Further Innovation**. American Agricultural Economics Association Annual Meetings. Manhattan, Kansas. August 5-7, 1991.
- Lee, Hyunok and Agapi Somwaru. **Share Tenancy and Allocative Efficiency**. Atlantic Economic Society Annual Meetings. Washington, D.C. October 3-6, 1991.
- Nehring, Richard and Utpal Vasavada. **Risk-Reducing Inputs In U.S. Agricultural Production**. XXI International Conference of Agricultural Economists. Tokyo, Japan. August 29-31, 1991.
- Osteen, Craig. **Pesticide Use and Policy In the U.S.** New Directions in Pesticide Use: Environment, Economics, and Ethics Conference. Washington, D.C. October 21, 1991.
- Primont, Dan and Richard Nehring. **Alternative Environmental Policies and Input Substitution In the Corn Belt: Single and Multi-Output Nonparametric Approaches**. XXI International Conference of Agricultural Economists. Tokyo, Japan. August 29-31. 1991.
- Reilly, John. **Modelling Global Biomass Supply**. Global Biomass Workshop. Lexington, Kentucky. September 9-11. 1991.
- Ribaudo, Mark, Tim Osborn, and Kazim Konyar. **Costs and Benefits of Cropland Retirement for Meeting Water Quality Goals**. American Agricultural Economics Association Annual Meetings. Manhattan, Kansas. August 5-7, 1991.
- Ribaudo, Mark and David Ervin. **Recent Federal Water Quality Directions and Implications for Research and Education**. American Agricultural Economics Association Annual Meetings. Manhattan, Kansas. August 5-7, 1991.
- Rogers, Denise and Ann M. Vandeman. **Does Landlord Gender Matter in the Management of Leased Farm Land?** Poster. American Agricultural Economics Association Annual Meetings. Manhattan, Kansas. August 5-7, 1991.
- Rogers, Denise and Ann M. Vandeman. **The Role of Women In the Market for and Management of Leased Farm Land**. Presentation at the URPE Conference. New York, New York. August 1991.
- Sandretto, Carmen, William Crosswhite, and Richard Magleby. **The Evolution of Agricultural Conservation, Resource Protection, and Water Quality Efforts**. Poster Paper. Soil and Water Conservation Society Annual Meetings. Lexington, Kentucky. August 4-7, 1991.
- Setia, Parveen and David Letson. **Farm-Level Implications of Reducing Environmental Degradation Under Uncertainty**. American Agricultural Economics Association Annual Meetings. Manhattan, Kansas. August 5-7, 1991.
- Tegene, Abebayehu. **Evaluating Forecasting Models of Farmland Prices**. Western Economics Association Meeting. Seattle, Washington. June 29 - July 3, 1991.
- Tobey, James. **International Trade and the Environment**. Invited Paper. Egon Sohmen Conference on Economic Evolution and Environmental Concerns. Linz, Austria. August 1991.
- Vasavada, Utpal. **The Role of Production Costs in Explaining Agricultural Trade**. Symposium paper. XXI International Conference of Agricultural Economists. Tokyo, Japan. August 29-31, 1991.

UNITED STATES DEPARTMENT OF AGRICULTURE
ECONOMIC RESEARCH SERVICE
1301 NEW YORK AVE., NW.
WASHINGTON, DC 20005-4788

RTD TODAY

Editor: William D. Anderson

Assistant: Denice A. Bess

This newsletter is distributed free to RTD employees, retirees, and colleagues. Send subscription requests and address changes to the Editor, **RTD TODAY**, USDA/ERS/RTD, 1301 New York Avenue, NW, Room 524, Washington, DC 20005-4788, or phone (202) 219-0450.